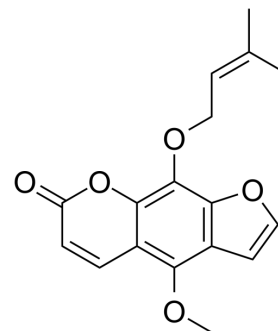


Phellopterin

Cat. No.:	HY-N2110		
CAS No.:	2543-94-4		
Molecular Formula:	C ₁₇ H ₁₆ O ₅		
Molecular Weight:	300.31		
Target:	Akt		
Pathway:	PI3K/Akt/mTOR		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (332.99 mM; Need ultrasonic)									
	<table border="1"> <tr> <td rowspan="2">Solvent</td> <td>Mass</td> <td rowspan="2">1 mg</td> <td rowspan="2">5 mg</td> <td rowspan="2">10 mg</td> </tr> <tr> <td>Concentration</td> </tr> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration			
Solvent	Mass		1 mg				5 mg	10 mg		
	Concentration									
Preparing Stock Solutions	1 mM	3.3299 mL	16.6495 mL	33.2989 mL						
	5 mM	0.6660 mL	3.3299 mL	6.6598 mL						
	10 mM	0.3330 mL	1.6649 mL	3.3299 mL						
	Please refer to the solubility information to select the appropriate solvent.									
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.32 mM); Clear solution									

BIOLOGICAL ACTIVITY

Description	Phellopterin is a natural product isolated from <i>Angelica dahurica</i> . Phellopterin reduces TNF-alpha-induced VCAM-1 expression through regulation of the Akt and PKC pathway, which contributes to inhibit the adhesion of monocytes to endothelium ^[1] .
--------------------	---

REFERENCES

[1]. Nizamutdinova IT, et al. Hesperidin, hesperidin methyl chalone and phellopterin from *Poncirus trifoliata* (Rutaceae) differentially regulate the expression of adhesion molecules in tumor necrosis factor-alpha-stimulated human umbilical vein endothelial cells. *Int Immunopharmacol.* 2008 May;8(5):670-8.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA